## What is claimed is:

- 1. An implant system comprising
- a ferromagnetic material sized and configured for implanting in a tissue region in a lateral pharyngeal wall along a pharyngeal conduit, and
- a source of magnetic force sized and configured for placement to interact with the ferromagnetic material to resist collapse of the tissue region.
  - 2. A system according to claim 1
- wherein the source of magnetic force is sized and configured for implantation in a tissue region in one of a pharyngeal conduit, a tongue, a pharyngeal wall, an epiglottis, a vallecula, and a soft palate/uvula.
  - A system according to claim 1
- wherein the source of magnetic force interacts by repelling the ferromagnetic material implanted in the lateral pharyngeal wall.
  - 4. A system according to claim 1
- wherein the source of magnetic force is sized and configured for implantation in a tissue region external to the pharyngeal conduit.
  - 5. A system according to claim 1

wherein the source of magnetic force is sized and configured for placement external to the pharyngeal conduit.

6. A system according to claim 5

wherein the source of magnetic force is sized and configured for placement on one of an oral cavity, a neck, a jaw, and a head.

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7. A system according to claim 1

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- wherein the source of magnetic force interacts by attracting the ferromagnetic material implanted in the lateral pharyngeal wall.
  - 8. An implant system comprising
- 35 a ferromagnetic material sized and configured for

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implanting in one of a soft tissue region defining a portion of a pharyngeal conduit, a soft tissue region in a lateral pharyngeal wall, and combinations thereof, and

- a source of magnetic force sized and configured for implanting in one of a tongue, an epiglottis, a soft palate/uvula, a vallecula, in another soft tissue region in a lateral pharyngeal wall, in an opposite lateral pharyngeal wall, and combinations thereof, to repel the ferromagnetic material and resist collapse of the soft tissue region.
  - 9. A system according to claim 1 or 8 wherein the ferromagnetic material is sized and configured for implanting in the tissue region through a tonsil fossa.
    - 10. An implant system comprising
  - a ferromagnetic material sized and configured for implanting in a tongue, and
- a source of magnetic force sized and configured for placement to interact with the ferromagnetic material in the tongue.
  - 11. A system according to claim 10

wherein the ferromagnetic material is tethered to an anchoring structure implanted in the tongue.

- 25 12. A system according to claim 10 wherein the ferromagnetic material is coupled to a hyoid bone.
  - 13. A system according to claim 10

wherein the ferromagnetic material is implanted in one of a lateral tissue region of the tongue, an anterior tissue region of the tongue, a posterior tissue region of the tongue, and combinations thereof.

14. A system according to claim 10

wherein the source of magnetic force is sized and configured for implantation in a tissue region in one of

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a pharyngeal wall, a soft palate/uvula, and combinations thereof.

- 15. A system according to claim 10
- wherein the source of magnetic force is sized and configured for placement in a tissue region external to the tongue.
  - 16. A system according to claim 15

wherein the source of magnetic force is sized and configured for placement on one of an oral cavity, a neck, a jaw, and a head.

17. A system according to claim 10

wherein the source of magnetic force interacts by repelling the ferromagnetic material implanted in the tongue.

- 18. A system according to claim 10 wherein the source of magnetic force interacts by attracting the ferromagnetic material implanted in the tongue.
- 19. A system according to claim 1 or 8 or 10
  20 wherein the ferromagnetic material includes a soft ferromagnetic material.
  - 20. A system according to claim 1 or 8 or 10 wherein the ferromagnetic material includes a permanent magnet.
- 25 21. A system according to claim 1 or 8 or 10 wherein the ferromagnetic material comprises at least two discrete sources of magnetism, and

further including a flexible polymer matrix carrying the at least two discrete sources of magnetism in a spaced apart relationship, the polymer matrix allow flexure between the sources of magnetism.

22. A system according to claim 21

wherein the flexible polymer matrix includes a biocompatible protective material.

35 23. A system according to claim 21

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wherein the flexible polymer matrix includes a tissue in-growth material.

- 24. A system according to claim 21 wherein the flexible polymer matrix includes a mechanical tissue stabilization element.
- 25. A system according to claim 1 or 8 or 10 wherein the ferromagnetic material comprises one of a generally horizontal array of ferromagnetic materials implanted in the tissue region, a generally vertical array of ferromagnetic materials implanted in the tissue region, a generally angular array of ferromagnetic materials implanted in the tissue region, and combinations thereof.
- 26. A system according to claim 1 or 8 or 10

  wherein the source of magnetic force includes one of a permanent magnet and an electromagnet.
  - 27. A system according to claim 1 or 8 or 10 wherein the source of magnetic force comprises at least two discrete sources of magnetism, and
- further including a flexible polymer matrix carrying the at least two discrete sources of magnetism in a spaced apart relationship, the polymer matrix allow flexure between the sources of magnetism.
  - 28. A system according to claim 1 or 8 or 10
    wherein the ferromagnetic material is sized and
    configured for implantation within an implantation
  - configured for implantation within an implantation sleeve.

    29. A system according to claim 28
- wherein the implantation sleeve includes a mechanical tissue stabilization device.
  - 30. A method for treating sleep disordered breathing using an implant system defined in claim 1 or 8 or 10.
- 31. An implant device comprising35 at least two discrete sources of magnetism, and

- a flexible polymer matrix carrying the at least two discrete sources of magnetism in a spaced apart relationship, the polymer matrix allow flexure between the sources of magnetism.
- 5 32. A device according to claim 31 wherein the sources of magnetism comprise ferromagnetic materials.
- 33. A device according to claim 32
  wherein the ferromagnetic materials include soft
  10 ferromagnetic materials.
  - 34. A device according to claim 32 wherein the ferromagnetic materials include permanent magnets.
    - 35. A device according to claim 31 wherein the at least two discrete sources of
  - 36. A device according to claim 31

    wherein the flexible polymer matrix includes a biocompatible protective material.
- 20 37. A device according to claim 31 wherein the flexible polymer matrix includes a tissue in-growth material.
  - 38. A device according to claim 31

magnetism comprises electromagnets.

- wherein the device is sized and configured for implantation in one of a pharyngeal wall, a tongue, a soft palate/uvula, an epiglottis, and a tissue region in a pharyngeal conduit.
  - 39. A method a treating sleep disordered breathing using the implant device defined in claim 31.

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